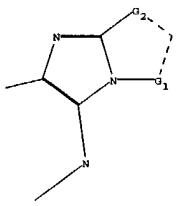
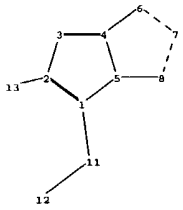
C:\stnweb\Queries\1a.str





chain nodes :
    11 12
ring nodes :
    1 2 3 4 5 6 7 8
ring/chain nodes :
    13
chain bonds :
    1-11 2-13 11-12
ring bonds :
    1-2 1-5 2-3 3-4 4-5 4-6 5-8 6-7 7-8
exact/norm bonds :
    1-2 1-5 1-11 2-3 2-13 3-4 4-5 4-6 5-8 6-7 7-8 11-12
solated ring systems :
    containing 1 :

G1:C,N

G2:C,S,N

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 11:CLASS 12:CLASS
    13:CLASS

```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

  NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
  NEWS  2           "Ask CAS" for self-help around the clock
  NEWS  3  SEP 09   CA/CAplus records now contain indexing from 1907 to the
                    present
  NEWS  4  DEC 08   INPADOC: Legal Status data reloaded
  NEWS  5  SEP 29   DISSABS now available on STN
  NEWS  6  OCT 10   PCTFULL: Two new display fields added
  NEWS  7  OCT 21   BIOSIS file reloaded and enhanced
  NEWS  8  OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
  NEWS  9  NOV 24   MSDS-CCOHS file reloaded
  NEWS 10  DEC 08   CABA reloaded with left truncation
  NEWS 11  DEC 08   IMS file names changed
  NEWS 12  DEC 09   Experimental property data collected by CAS now available
                    in REGISTRY
  NEWS 13  DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
  NEWS 14  DEC 17   DGENE: Two new display fields added
  NEWS 15  DEC 18   BIOTECHNO no longer updated
  NEWS 16  DEC 19   CROPU no longer updated; subscriber discount no longer
                    available
  NEWS 17  DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                    databases
  NEWS 18  DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
  NEWS 19  DEC 22   ABI-INFORM now available on STN
  NEWS 20  JAN 27   Source of Registration (SR) information in REGISTRY updated
                    and searchable
  NEWS 21  JAN 27   A new search aid, the Company Name Thesaurus, available in
                    CA/CAplus
  NEWS 22  FEB 05   German (DE) application and patent publication number format
                    changes

  NEWS EXPRESS  DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
                MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
                AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
  NEWS HOURS    STN Operating Hours Plus Help Desk Availability
  NEWS INTER    General Internet Information
  NEWS LOGIN    Welcome Banner and News Items
  NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
  NEWS WWW      CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 20:57:26 ON 02 MAR 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 20:57:31 ON 02 MAR 2004
```

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 MAR 2004 HIGHEST RN 656797-92-1
DICTIONARY FILE UPDATES: 1 MAR 2004 HIGHEST RN 656797-92-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

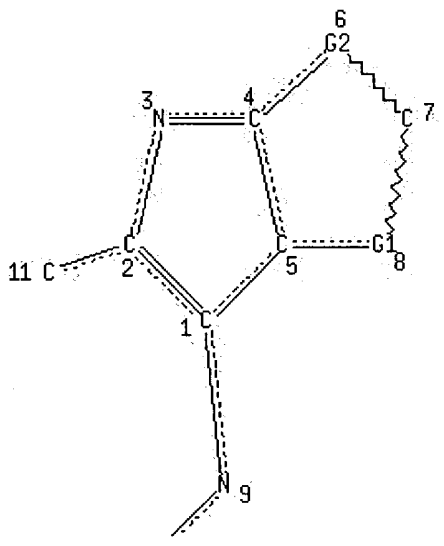
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1 STRUCTURE UPLOADED

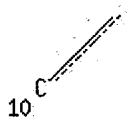
=> d l1
L1 HAS NO ANSWERS
L1 STR

C 14 S 15 N 16

C 12 N 13
Page 1-A



Page 1-B



Page 2-B
VAR G1=12/13
VAR G2=14/15/16

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NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS RC     AT  11
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   9 10 11
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  16

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 20:58:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    236 TO ITERATE

100.0% PROCESSED     236 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         3799 TO     5641
PROJECTED ANSWERS:               0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 20:58:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   4516 TO ITERATE

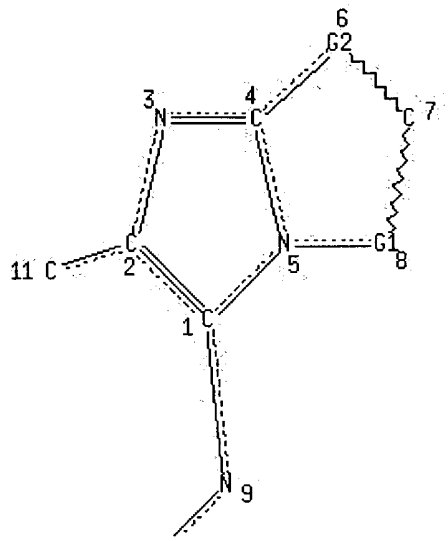
100.0% PROCESSED    4516 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L3             0 SEA SSS FUL L1

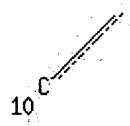
=>
L4       STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4                STR
 C 14 S 15 N 16


 C 12 N 13
Page 1-A
```



Page 1-B



Page 2-B
VAR G1=12/13
VAR G2=14/15/16
NODE ATTRIBUTES:
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NSPEC IS R AT 2
NSPEC IS R AT 3
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NSPEC IS R AT 7
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NSPEC IS C AT 9
NSPEC IS C AT 10
NSPEC IS RC AT 11
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 9 10 11
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

=> s 14
SAMPLE SEARCH INITIATED 20:58:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 219 TO ITERATE

100.0% PROCESSED 219 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3493 TO 5267

```
PROJECTED ANSWERS:                6 TO      266

L5             6 SEA SSS SAM L4

=> s l4 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 20:59:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   4744 TO ITERATE

100.0% PROCESSED    4744 ITERATIONS                              86 ANSWERS
SEARCH TIME: 00.00.01

L6             86 SEA SSS FUL L4

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     311.26     311.47

FILE 'HCAPLUS' ENTERED AT 20:59:07 ON 02 MAR 2004
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FILE COVERS 1907 - 2 Mar 2004  VOL 140 ISS 10
FILE LAST UPDATED: 1 Mar 2004  (20040301/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> s l6
L7             16 L6

=> s l6/thu
             16 L6
         574682 THU/RL
L8            4 L6/THU
                  (L6 (L) THU/RL)

=> d l8, ibib abs fhitstr, 1-4

L8   ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2004 ACS on STN
```


```
ACCESSION NUMBER:         2003:507684  HCAPLUS
DOCUMENT NUMBER:          139:85530
TITLE:                    Preparation of C1 to c4 side-chain modified
```

nodulisporic acid analogs as anthelmintic agents

INVENTOR(S): Shih, Thomas; Colletti, Steven L.; Fisher, Michael H.; Meinke, Peter T.; Kuo, Howard C. H.; Chakravarty, Prasun K.; Wyvratt, Matthew J.; Tyagarajan, Sriram; Berger, Richard

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: U.S., 57 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

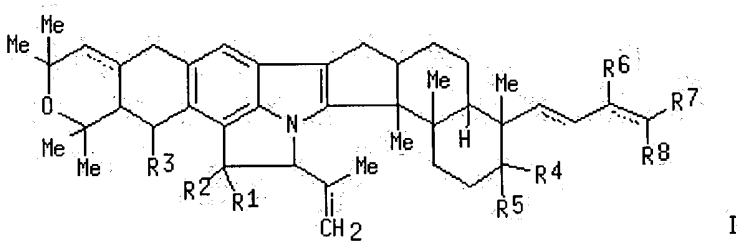
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6586452	B1	20030701	US 2001-901266	20010709

PRIORITY APPLN. INFO.: US 2000-218398P P 20000714

OTHER SOURCE(S): MARPAT 139:85530

GI



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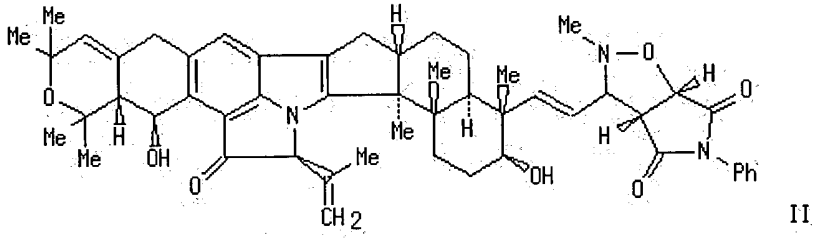


II

AB Nodulisporic acid derivs., such as I [R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl; R2-R4 = (substituted) OH; R1R2 = O; R5 = H, (substituted) OH; R4R5 = O; R6-R8 = H, alkyl, alkenyl, aryl, cycloalkyl, halo, CN acyl, amino, etc.] were prepd. The compds. were acaricidal, antiparasitic, insecticidal and anthelmintic agents. Thus, nodulisporic acid deriv. II was prepd. via a multistep synthetic sequence starting from nodulisporic acid A, N-methylhydroxylamine hydrochloride and N-phenyl-maleimide.

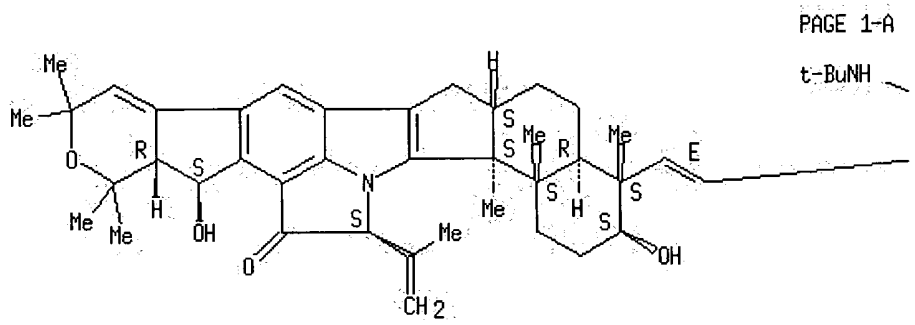
IT **552836-27-8P**
RL: AGR (Agricultural use); PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents)

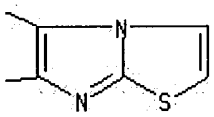
RN 552836-27-8 HCAPLUS

CN 1H-Benz[6,7]indeno[1,2-b]pyrano[3',4':4,5]cyclopenta[1,2-f]pyrrolo[3,2,1-hi]indol-14(15H)-one, 4-[(1E)-2-[5-[(1,1-dimethylethyl)amino]imidazo[1,2-b]thiazol-6-yl]ethenyl]-2,3,4,4a,5,6,6a,7,10,12,12a,13,16b,16c-tetradecahydro-3,13-dihydroxy-4,10,10,12,12,16b,16c-heptamethyl-15-(1-

methylethenyl)-, (3S,4S,4aR,6aS,12aR,13S,15S,16bS,16cS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.





REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

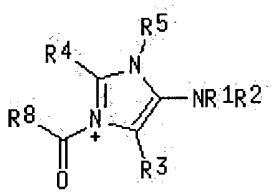
ACCESSION NUMBER: 2001:798222 HCAPLUS
DOCUMENT NUMBER: 135:344484
TITLE: Preparation of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081344	A1	20011101	WO 2001-EP3772	20010403
DE 10019714	A1	20020110	DE 2000-10019714	20000420
EP 1274709	A1	20030115	EP 2001-931560	20010403

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2003531208	T2	20031021	JP 2001-578434		20010403
NO 2002004838	A	20021007	NO 2002-4838		20021007
US 2003119842	A1	20030626	US 2002-273344		20021018
PRIORITY APPLN. INFO.:			DE 2000-10019714	A	20000420
			WO 2001-EP3772	W	20010403

OTHER SOURCE(S): MARPAT 135:344484
GI

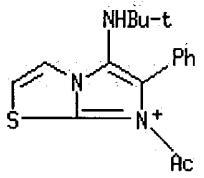


I

AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT **370858-36-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)

RN 370858-36-9 HCAPLUS
CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



Cl^-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER:	2001:283961 HCAPLUS
DOCUMENT NUMBER:	134:295826
TITLE:	Preparation of imidazopyridineamines and analogs as analgesics
INVENTOR(S):	Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S):	Gruenenthal G.m.b.H., Germany
SOURCE:	PCT Int. Appl., 30 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	German

FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027119	A2	20010419	WO 2000-EP9098	20000918
WO 2001027119	A3	20011011		

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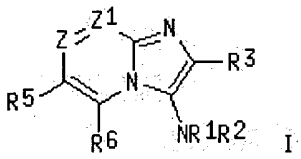
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19948434	A1	20010607	DE 1999-19948434	19991008
PT 1218378	T	20030930	PT 2000-969439	20001006
ZA 2002003579	A	20030806	ZA 2002-3579	20020506

PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
GI

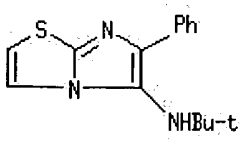


I

AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT **214531-41-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as analgesics)

RN 214531-41-6 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles,

-pyrazoles, and -triazoles as analgesics
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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DE 19948434	A1	20010607	DE 1999-19948434	19991008
DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
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JP 2003511456	T2	20030325	JP 2001-530336	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
US 2004023927	A1	20040205	US 2003-633579	20030805

PRIORITY APPLN. INFO.:
DE 1999-19948434 A 19991008
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WO 2000-EP9097 W 20000918
US 2002-117335 A3 20020408

OTHER SOURCE(S): MARPAT 134:295829
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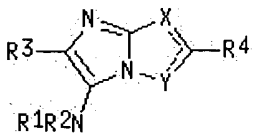


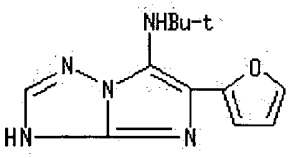
I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-

yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

IT 334771-60-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)

RN 334771-60-7 HCAPLUS
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)

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       3115718 PREP/RL
L9          13 L6/PREP
                (L6 (L) PREP/RL)

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L8 IS NOT VALID HERE
For an explanation, enter "HELP DISPLAY".

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L10          9 L9 NOT L8

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L10  ANSWER 1 OF 9  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

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ACCESSION NUMBER:         2003:363790  HCAPLUS
DOCUMENT NUMBER:          139:230677
TITLE:                    Microwave-assisted multi-component synthesis of fused
                          3-aminoimidazoles
AUTHOR(S):                Ireland, Sarah M.; Tye, Heather; Whittaker, Mark
CORPORATE SOURCE:         Evotec OAI, Abingdon, Oxfordshire, OX14 4SD, UK
```
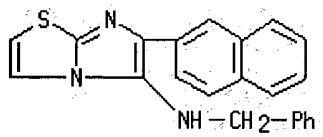

SOURCE: Tetrahedron Letters (2003), 44(23), 4369-4371
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:230677

AB A variety of fused 3-aminoimidazoles have been synthesized by a microwave assisted Ugi three-component coupling (3cc) reaction catalyzed by scandium triflate in methanol as solvent. Yields of 33-93% have been achieved after just 10 min of microwave irradn. using a simple one-stage procedure. The methodol. described is suitable for the rapid and efficient synthesis of a range of fused heterocycles of pharmacol. interest.

IT **593270-92-9P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(synthesis of fused 3-aminoimidazoles via microwave assisted Ugi three-component coupling as the key step)

RN 593270-92-9 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, 6-(2-naphthalenyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

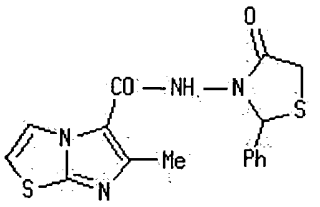


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

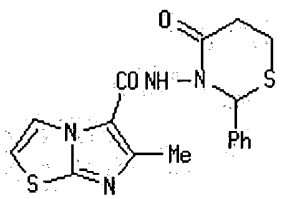
L10 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:90593 HCAPLUS
DOCUMENT NUMBER: 138:401653
TITLE: Fused heterocycles: Synthesis of some new imidazothiazoles
AUTHOR(S): Cesur, Nesrin; Cesur, Zafer; Guner, Handan; Kasimogullari, B. Ozden
CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Istanbul, Instanbul, 34452, Turk.
SOURCE: Heterocyclic Communications (2002), 8(5), 433-438
CODEN: HCOMEX; ISSN: 0793-0283
PUBLISHER: Freund Publishing House Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:401653
GI



I



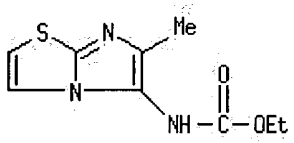
II

AB Reaction of aldehyde-hydrazones or semicarbazones bearing an imidazo[2,1-b][1,3]thiazole ring system with mercaptoalkanoic acids were

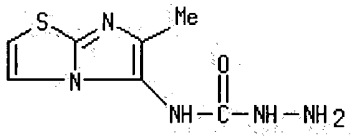
investigated and found to give thiazolidine and thiazine derivs., e.g. I and II. Antimycobacterial activities of compds. thus obtained were evaluated against Mycobacterium tuberculosis H37Rv using rifampine as std. (no data).

IT **531501-57-2P 531501-58-3P 531501-59-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(synthesis of some new imidazothiazoles via aldehyde hydrazones or semicarbazones)

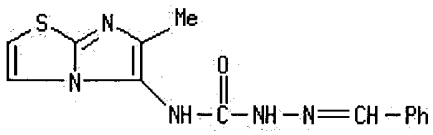
RN 531501-57-2 HCAPLUS
CN Carbamic acid, (6-methylimidazo[2,1-b]thiazol-5-yl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 531501-58-3 HCAPLUS
CN Hydrazinecarboxamide, N-(6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)

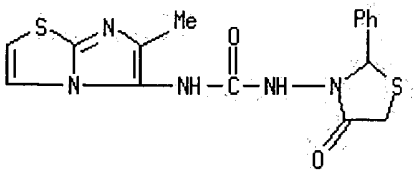


RN 531501-59-4 HCAPLUS
CN Hydrazinecarboxamide, N-(6-methylimidazo[2,1-b]thiazol-5-yl)-2-(phenylmethylene)- (9CI) (CA INDEX NAME)

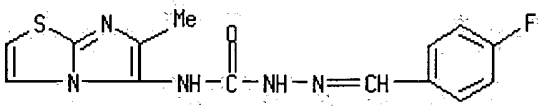


IT **531501-60-7P 531501-73-2P 531501-74-3P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(synthesis of some new imidazothiazoles via aldehyde hydrazones or semicarbazones)

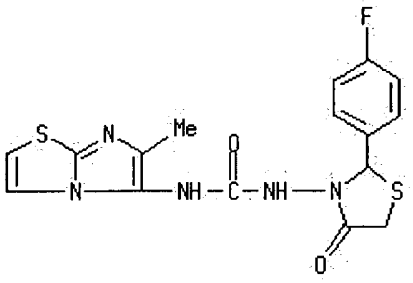
RN 531501-60-7 HCAPLUS
CN Urea, N-(6-methylimidazo[2,1-b]thiazol-5-yl)-N'-(4-oxo-2-phenyl-3-thiazolidinyl)- (9CI) (CA INDEX NAME)



RN 531501-73-2 HCAPLUS
CN Hydrazinecarboxamide, 2-[(4-fluorophenyl)methylene]-N-(6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



RN 531501-74-3 HCAPLUS
CN Urea, N-[2-(4-fluorophenyl)-4-oxo-3-thiazolidinyl]-N'-(6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

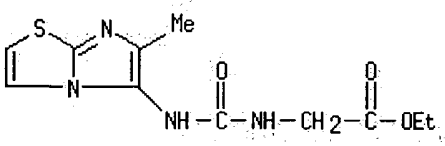
Full Text | Citing References

ACCESSION NUMBER: 2000:211394 HCAPLUS
DOCUMENT NUMBER: 132:334420
TITLE: Synthesis of new functionalized imidazo[2,1-b]thiazoles and thiazolo[3,2-a]pyrimidines
AUTHOR(S): Peterlin-Masic, Lucija; Malesic, Mateja; Breznik, Matej; Krbavcic, Ales
CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Ljubljana, 1000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (2000), 37(1), 95-101
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 5-Oxo-5H-[1,3]thiazolo[3,2-a]pyrimidine-6-carboxylic acid and 6-methylimidazo[2,1-b]thiazole-5-carboxylic acid were reacted with amines via reaction with oxalyl chloride and use of N,N-dimethylformamide as a catalyst to give primary and secondary amide derivs. N,N'-disubstituted ureas and perhydroimidazo[1,5-c]thiazole derivs. of imidazo[2,1-b]thiazole were also prepd. By NMR anal. of one of the compds. prepd., existence of two stereoisomers resulting from both optical and conformational isomerism was obsd.

IT **267897-75-6P** **267897-76-7P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of imidazo[2,1-b]thiazoles and thiazolo[3,2-a]pyrimidines)

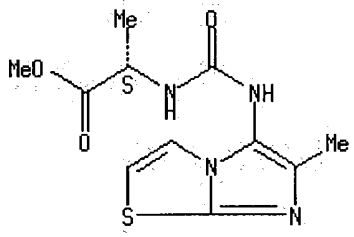
RN 267897-75-6 HCAPLUS
CN Glycine, N-[[(6-methylimidazo[2,1-b]thiazol-5-yl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 267897-76-7 HCAPLUS

CN L-Alanine, N-[[(6-methylimidazo[2,1-b]thiazol-5-yl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:624858 HCAPLUS
DOCUMENT NUMBER: 129:302566
TITLE: A new heterocyclic multicomponent reaction for the combinatorial synthesis of fused 3-aminoimidazoles
AUTHOR(S): Bienayme, Hugues; Bouzid, Kamel
CORPORATE SOURCE: Rhone-Poulenc Technologies, St-Fons, F-69192, Fr.
SOURCE: Angewandte Chemie, International Edition (1998), 37(16), 2234-2237
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:302566
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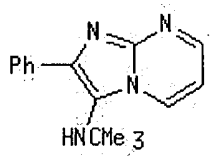
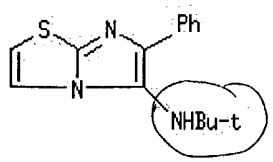


I

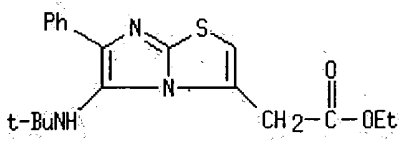
AB Reaction of heteroarom. amidines, aldehydes, and isonitriles in the presence of a catalytic amt. of protic acids gave fused 3-aminoimidazoles. E.g., HClO4-catalyzed reaction of 2-aminopyrimidine, PhCHO, and Me3CNC gave 82% imidazopyrimidine I.

IT **214531-41-6P 214531-42-7P 214531-43-8P 214531-45-0P 214531-46-1P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of fused aminoimidazoles by multicomponent reaction of aminoamidines, aldehydes, and isonitriles)

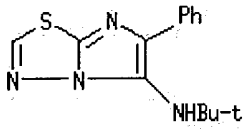
RN 214531-41-6 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



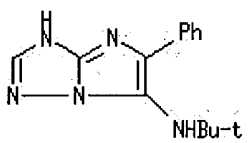
RN 214531-42-7 HCAPLUS
CN Imidazo[2,1-b]thiazole-3-acetic acid, 5-[(1,1-dimethylethyl)amino]-6-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



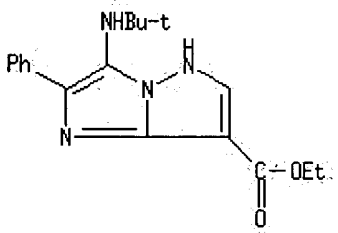
RN 214531-43-8 HCAPLUS
CN Imidazo[2,1-b]-1,3,4-thiadiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 214531-45-0 HCAPLUS
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-phenyl- (9CI) (CA INDEX NAME)



RN 214531-46-1 HCAPLUS
CN 5H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(1,1-dimethylethyl)amino]-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

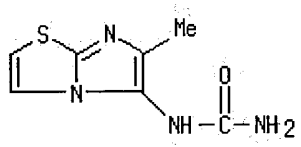
ACCESSION NUMBER: 1997:169046 HCAPLUS
DOCUMENT NUMBER: 126:238333
TITLE: Transformations of methyl L-(-)-Thiazolidine-4-carboxylate, 2-amino-2-thiazoline and 2-aminothiazole into thiazoloazines and azolothiazoles
AUTHOR(S): Malesic, Mateja; Krbavcic, Ales; Stanovnik, Branko
CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Lujbljana, 1000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (1997), 34(1), 49-55
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal

LANGUAGE: English

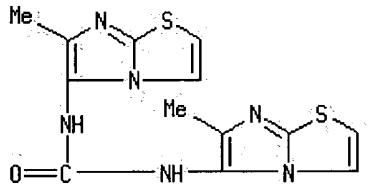
AB In the search for potential immunomodulators Me L-(-)-thiazolidine-4-carboxylate (I), 2-amino-2-thiazoline (II), and 2-aminothiazole (III) were transformed into derivs. of various bicyclic systems. Thus, from I, derivs. of perhydrothiazolo[3,4-a]pyrazine, perhydrothiazolo[4,3-c][1,4]oxazine, and perhydroimidazo[1,5-c]thiazole were prepd. From II, derivs. of 2,3-dihydrothiazolo[2,3-b]pyrimidine were prepd. From III, derivs. of imidazo[2,1-b]thiazoline were prepd. 6-(P-Sulfamoylphenyl)-7-oxoperhydroimidazo[1,5-c]thiazole-5-thione was found to exhibit immunorestoration activity.

IT **188561-50-4P 188561-52-6P 188561-59-3P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(transformations of Me thiazolidinecarboxylate, aminothiazoline, and aminothiazole into thiazoloazines and azolothiazoles)

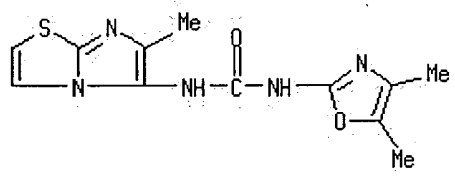
RN 188561-50-4 HCAPLUS
CN Urea, (6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



RN 188561-52-6 HCAPLUS
CN Urea, N,N'-bis(6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



RN 188561-59-3 HCAPLUS
CN Urea, N-(4,5-dimethyl-2-oxazolyl)-N'-(6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

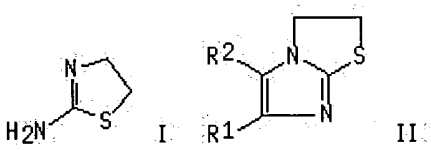
L10 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1987:102158 HCAPLUS
DOCUMENT NUMBER: 106:102158
TITLE: Novel syntheses of fused imidazoles. III. Simplified construction of the imidazo[2,1-b]thiazoline system
AUTHOR(S): Lantos, Ivan; McGuire, Michael
CORPORATE SOURCE: Chem. Res. Dev., Smith Kline and French Lab., Philadelphia, PA, 19101, USA
SOURCE: Heterocycles (1986), 24(4), 991-6
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal

PD40.114

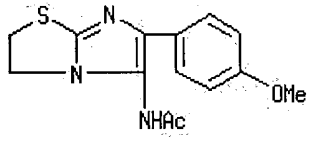
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:102158
GI



AB Aminothiazoline I reacted with 4-RC6H4CHO (R = OMe, F, H, Me) in the presence of NaCN at room temp. to give imidazothiazolines II (R1 = 4-RC6H4; R2 = R1CH:N) in 20-80% yields. Acid hydrolysis of the latter gave II (R2 = NH2).

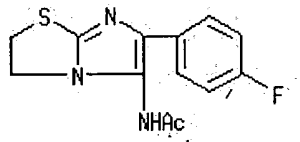
IT **106726-46-9P 106745-03-3P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 106726-46-9 HCAPLUS
CN Acetamide, N-[2,3-dihydro-6-(4-methoxyphenyl)imidazo[2,1-b]thiazol-5-yl]-(9CI) (CA INDEX NAME)



102

RN 106745-03-3 HCAPLUS
CN Acetamide, N-[6-(4-fluorophenyl)-2,3-dihydroimidazo[2,1-b]thiazol-5-yl]-(9CI) (CA INDEX NAME)



102

L10 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1974:505382 HCAPLUS
DOCUMENT NUMBER: 81:105382
TITLE: Cyclization of ω-chloro-ω-acylamido acetophenones
AUTHOR(S): Drach, B. S.; Dolgushina, I. Yu.; Sinitsa, A. D.
CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1974), (7), 928-31
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Acylamidothiazoles (I; R = Me, MeO, Ph, PhCH2O; R1 = H, Ph, MeS, NH2, Me) were obtained in 60-94% yields by cyclization of RCONHCHClCOPh (II) with R1CSNH2 1 hr in boiling THF. Analogously obtained were 60-86% benzothiazines (III; R = Me, Ph, MeO) from o-aminobenzenethiol, 55-62% imidazothiazoles (IV; R = Me, MeO) from 2-aminothiazole, and 60-8%

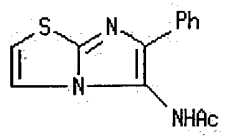
imidazopyridines (V; R = Me, MeO) from 2-aminopyridine.

IT **54167-97-4P 54167-98-5P**

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 54167-97-4 HCAPLUS

CN Acetamide, N-(6-phenylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



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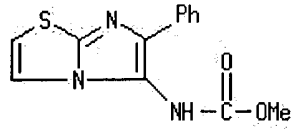
RN 54167-98-5 HCAPLUS

CN Carbamic acid, (6-phenylimidazo[2,1-b]thiazol-5-yl)-, methyl ester (9CI) (CA INDEX NAME)



102

L10 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1973:159516 HCAPLUS

DOCUMENT NUMBER: 78:159516

TITLE: 1H-Imidazo[1,2-a]imidazoles. II. Chemistry of 1,6-dimethyl-1H-imidazo[1,2-a]imidazole

AUTHOR(S): Miller, Laird F.; Bambury, Ronald E.

CORPORATE SOURCE: Merrell-Natl. Lab. Div., Richardson-Merrell, Inc., Cincinnati, OH, USA

SOURCE: Journal of Organic Chemistry (1973), 38(10), 1955-7
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 78:159516

GI For diagram(s), see printed CA Issue.

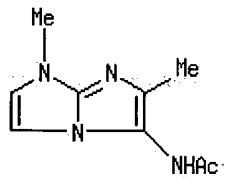
AB Electrophilic substitutions of 1,6-dimethyl-1H-imidazo [1,2-a]imidazole (I) occurred initially at the 5-position. Nitration of I also gave a dinitrated product whose structure was not conclusively established. A series of Hueckel MO calcns. were made in order to det. the site of substitution.

IT **38739-98-9P 38739-99-0P**

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 38739-98-9 HCAPLUS

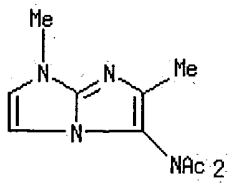
CN Acetamide, N-(1,6-dimethyl-1H-imidazo[1,2-a]imidazol-5-yl)- (9CI) (CA INDEX NAME)



RN 38739-99-0 HCAPLUS

CN Acetamide, N-acetyl-N-(1,6-dimethyl-1H-imidazo[1,2-a]imidazol-5-yl)- (9CI)

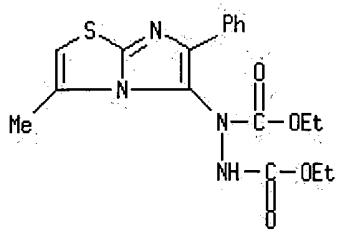
(CA INDEX NAME)



L10 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1968:95754 HCAPLUS
DOCUMENT NUMBER: 68:95754
TITLE: Substitution and addition reactions of 2-phenylimidazo[2,1-b]benzothiazole
AUTHOR(S): Pentimalli, Luciano; Guerra, Anna Maria
CORPORATE SOURCE: Univ. Bologna, Bologna, Italy
SOURCE: Gazzetta Chimica Italiana (1967), 97(8), 1286-93
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB Compds. of the general formulas I and II are prepd. A mixt. of 3.3 g. 2-amino-4-methylthiazole, 6 g. BrCH2COPh, and 30 ml. EtOH is refluxed 3 hrs. to give 68% 3-methyl-6-phenylimidazo[2,1-b]thiazole (III), m. 113° (ligroine). Similarly prepd. are (m.p. given): 2-phenylimidazo[2,1-b]-benzothiazole (IV), 97-9° (HCl salt m. 224-6°); I (Y = H, X = NO2), 257-8° (pyridine); II (Y = H, X = NO2), 284-6°. A mixt. of 1 g. IV, 0.8 g. EtO2CN:NCO2Et, and 15 ml. C6H6 is refluxed 3 hrs. to give 90% II [X = H, Y = N(CO2Et)NHCO2Et], m. 172-3° (C6H6-ligroine). Similarly prepd. is I [X = H, Y = N(CO2Et)NHCO2Et], m. 143° (C6H6-ligroine). A mixt. of 1 g. III, 0.45 g. maleic anhydride, and 45 ml. C6H6 is refluxed to give 91% I [X = H, Y = CH(CO2H)CH2CO2H], m. 179-80° (EtOH). Similarly prepd. is II [X = H, Y = CH(CO2H)CH2CO2H], m. 173-4° (xylene). A mixt. of 1 g. IV, diazonium salt (prepd. from 0.6 g. p-O2NC6H4NH2), and 20 ml. pyridine is kept overnight to give II (X = H, Y = p-O2NC6H4N:N), m. 240-1° (HOAc). Similarly prepd. is I (X = H, Y = p-O2NC6H4N:N), m. 171-2° (ligroine). A soln. of 1 g. IV in 10 ml. HOAc is treated with an aq. soln. of 0.5 g. NaNO2, the mixt. agitated 30 min., and neutralized with 10% NaOH to give 52% II (X = H, Y = NO), m. 179-80° (ligroin). A soln. of 2 g. IV in 20 ml. concd. H2SO4 is cooled, treated with 0.8 ml. HNO3 (d. 1.40), and agitated 90 min. to give II (X = Y = NO2), m. 327-9°, and II (X = NO2, Y = H), m. 282-5° (pyridine). Similarly prepd. is I (X = Y = NO2), m. 289-90° (pyridine).
IT **17833-09-9P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)
RN 17833-09-9 HCAPLUS
CN Bicarbamic acid, (3-methyl-6-phenylimidazo[2,1-b]thiazol-5-yl)-, diethyl ester (8CI) (CA INDEX NAME)



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L11  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

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ACCESSION NUMBER:         1995:350430  HCAPLUS
DOCUMENT NUMBER:          122:147044
TITLE:                    A silver halide color photographic material.
INVENTOR(S):              Ikesu, Satoru; Kaneko, Yutaka
PATENT ASSIGNEE(S):       Konica Corporation, Japan
SOURCE:                   Eur. Pat. Appl., 37 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.   DATE
     ---------------   ----  --------       ---------------   --------
     EP 608133          A1   19940727       EP 1994-300429    19940120
     EP 608133          B1   19990707
         R:  DE, FR, GB, NL
     JP 06222526        A2   19940812       JP 1993-8572      19930121
     JP 06242569        A2   19940902       JP 1993-25720     19930215
     JP 06242570        A2   19940902       JP 1993-25721     19930215
PRIORITY APPLN. INFO.:                    JP 1993-8572        19930121
                                          JP 1993-25720       19930215
                                          JP 1993-25721       19930215
OTHER SOURCE(S):          MARPAT 122:147044
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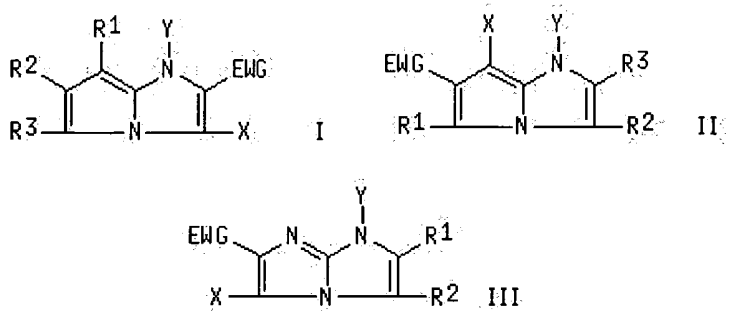
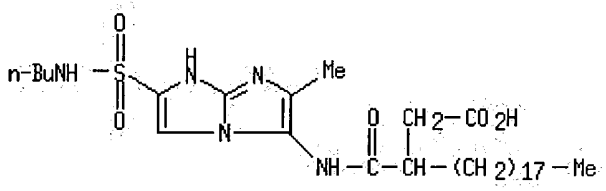


AB A Ag halide color photog. material comprises ≥1 of the hydrophilic colloid layers contg. a cyan dye-forming coupler represented by I, II, or III [R1-R3, Y = H, substituent; EWG = electron withdrawing group having Hammet's substituent const. ≥0.3; X = H, group capable of splitting off upon reaction with an oxidized product of a color developing agent]. The formed dye images have improved hue stability against heat, moisture and light.

IT **160877-96-3**
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler for improved hue stability)

RN 160877-96-3 HCAPLUS

CN Heneicosanoic acid, 3-[[[6-[(butylamino)sulfonyl]-2-methyl-1H-imidazo[1,2-a]imidazol-3-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



L11 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1993:222791 HCAPLUS
DOCUMENT NUMBER: 118:222791
TITLE: Photographic cyan coupler with heat and moisture resistance
INVENTOR(S): Kita, Hiroshi; Kaneko, Yutaka; Ikesu, Satoru
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04260035	A2	19920916	JP 1991-42345	19910215
JP 2849954	B2	19990127		

PRIORITY APPLN. INFO.: JP 1991-42345 19910215
OTHER SOURCE(S): MARPAT 118:222791

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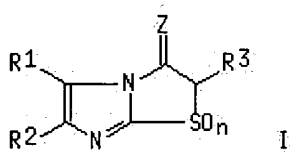


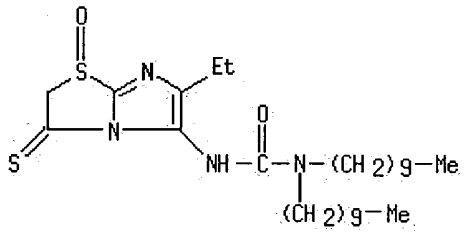
I

AB Photog. coupler I (R1-2 = H, substituent, R1 and R2 may form a ring; R3 = H, releasing group by the reaction with the oxidized color developing agent; Z = O, S; n = 1-2). The coupler gives cyan images with heat-, light-, and moisture-resistance.

IT **147034-73-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler)

RN 147034-73-9 HCAPLUS

CN Urea, N,N-didecyl-N'-(6-ethyl-2,3-dihydro-1-oxido-3-thioxoimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1963:14863 HCAPLUS
DOCUMENT NUMBER: 58:14863
ORIGINAL REFERENCE NO.: 58:2443e-h,2444a-e
TITLE: Bicyclic heterocyclic compounds with a common nitrogen atom. IV. Aminoimidazo[2,1-b]thiazoles
AUTHOR(S): Pyl, Theodor; Wuensch, Karl Heinz; Buelling, Lothar; Beyer, Hans
CORPORATE SOURCE: Univ. Greifswald, Germany
SOURCE: Ann. (1962), 657, 113-20
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB 5-Nitro- (I) and 5-nitrosoimidazo[2,1-b]thiazoles (II) were reduced with Zn in AcOH to give the corresponding 5-NH2 derivs. (III), which were relatively stable and behaved chem. as aromatic amines. I were dissolved or suspended in AcOH, treated portionwise with Zn dust with gentle heating, filtered, and the filtrate treated with Et2O-HCl or a few drops concd. H2SO4 [in the latter case the initially formed ppt. (ZnSO4) was discarded; the product crystd. on standing] gave III HCl or H2SO4 salts. Treatment of III salts in H2O with satd. aq. NaOAc or aq. picric acid (IV) gave free III and III picrates, resp. The following III were prepd. in this manner [R, R', R''', m.p. (decompn.), recrystn. solvent, % yield given] (R'' = H in all cases): H, H, Br (V), 183° dil. EtOH, 50; Me, H, Br (VI), 217°, MeOH, 20; H, Me, Br (VII), 200°, MeOH, 50; Me, Me, Br (VIII), 220° MeOH, 20; H, H, Cl (IX), 206°, dil. EtOH, 50; H, H, Me (as picrate), 250° (unsharp), aq. IV, 30; H, H, NH2 (as tri-HCl salt), above 300°, dil. HCl, 70; Me, H, NH2 (as dipicrate), 223°, --, 75; H, Me, NH2 (as dipicrate),

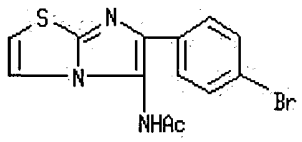
196°, alc.-IV, 65. II dissolved or suspended in AcOH cooled until the greater part of the AcOH solidified, treated portionwise with Zn dust with stirring, when decolorized the soln. filtered, the filtrate treated with a few drops concd. H2SO4 [the initial ppt. (ZnSO4) was discarded], and kept several hrs. gave III sulfate, converted to the free base or picrate as above. Thus were prepd. the following III (same data as above given) (R'' = H in all cases): H, H, Br, 183°, --, --; H, H, H (as picrate), 234°, aq. IV, 40; H, Me, H (as picrate), 213°, --, 33. The bases V-IX were stable; the other bases were unstable and were isolated only as picrates. 5-Nitro-6-(p-bromophenyl)imidazo[2,1-b]thiazole (1.6 g.) in 10 cc. AcOH and 5 cc. Ac2O treated with Zn dust and dild. with H2O gave 1.3 g. III (R'' = Ac, R = R' = H, R''' = Br), m. 211° (decompn.) (dil. EtOH). V (1 g.), 0.9 g. 4-EtO2CNHC6H4SO2Cl, and 0.3 g. pyridine in 100 cc. MeOH heated 2 hrs. and cooled gave 1.1 g. III (R = R' = H, R'' = 4-EtO2CNHC6H4SO2, RH''' = Br) (X) hydrate, m. 195° (H2O); X.HO2 dried in vacuo at 110° gave anhyd. X, m. 214-15°. X (1 g.) and 2 cc. 2N EtOH-NaOH in 50 cc. EtOH heated 6 hrs. at 60°, concd., poured into 1 l. H2O, and kept several hrs. gave 0.6 g. III (R = R' = H, R'' = 4-H2NC6H4SO2, R''' = Br), m. 210-11°. V (1.5 g.) in 75 cc. Me2CO treated with 2 g. PhNCO, kept 1 hr., and concd. gave 1.7 g. III (R = R' = H, R'' = PhNHCO, R''' = Br), m. 238° (decompn.) (EtOH). V (1.5 g.) and 0.7 g. PhNCS treated with 1 drop pyridine, heated (exothermic reaction), the melt taken up in EtOH, and the soln. treated with H2O gave 1.3 g. III (R = R' = H, R'' = PhNHCS, R''' = Br), m. 202° (decompn.) (dil. EtOH). V (1.5 g.) and 5 cc. BzH heated 5 min., the product dissolved in EtOH, and the soln. treated with H2O gave 1.2 g. benzylidene deriv. of V, m. 195° (decompn.) (EtOH). V (1.5 g.) and 3 cc. 2-HOC6H4CHO treated similarly gave 1.1 g. salicylidene deriv. of V, m. 215° (decompn.) (EtOH with C). V (2.9 g.) in 10 cc. concd. HCl and 100 cc. H2O treated with 0.8 g. NaNO2 at 0-5° and the ppt. filtered off rapidly gave moist III (R = R' = R'' = ON, R''' = Br) (XI). Freshly prepd. moist XI suspended in 20 cc. AcOH treated with Zn dust, the resulting light yellow soln. heated 5 min. with 1 cc. BzH, dild. with EtOH, treated with H2O, and kept overnight gave 0.1 g. III (R = R' = R'' = PhCH:N, R''' = Br), m. 210-11° (decompn.) (dil. EtOH). V (1.5 g.) in 15 cc. 50% HBr treated with 0.4 g. NaNO2 at 0-5° and the resulting diazonium soln. coupled with 2-naphthol gave XII. 2,4-Diaminothiazole and 4 g. BzCH2Br (XIII) in 250 cc. EtOH kept 1 hr. deposited 2.5 g. XIV (R = NH2), m. 244° (decompn.) (H2O with C). XIV (R = NH2) (1.5 g.) heated 2 hrs. with concd. HBr and cooled deposited 0.7 g. XIV (R = OH), m. 212° (decompn.) (EtOH). XIV (R = NH2) (3.1 g.) dissolved in 200 cc. boiling H2O, the soln. treated with satd. aq. NaOAc, the resinous product dissolved in EtOH, and the soln. treated with 1 cc. concd. HNO3 gave 2.5 g. 3-hydroxy-6-phenylimidazo[2,1-b]thiazole, m. 183° (decompn.). 2-Amino-4-methyl-5-carbethoxythiazole (3.7 g.) and 4 g. XIII in 50 cc. EtOH heated 30 hrs., cooled, the ppt. filtered off, suspended in H2O, and the suspension heated with NaOAc and cooled gave 4.7 g. XV (R = OEt), m. 144-5° (EtOH). XV (R = OEt) (1.4 g.) and 1 cc. 100% N2H4.H2O in 10 cc. EtOH heated 10 hrs. at 70° and cooled gave 0.9 g. XV (R = NHNH2) (XVI), m. 235° (EtOH). XVI (1.4 g.) in 8 cc. AcOH treated with 0.4 g. NaNO2 and dild. with 100 cc. H2O gave 1 g. XV (R = N3), decompd. when heated. XV (R = N3) (1.4 g.) in 15 cc. AcOH and 15 cc. Ac2O heated until N evolution ceased, poured into 400 cc. H2O, and treated dropwise with 2N NaOH until a flocculent ppt. sepd. gave 0.7 g. 2-acetamido-3-methyl-6-phenylimidazo [2, 1-b] thiazole, m. 225° (decompn.) (EtOH with C).

IT **92905-61-8**, Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)-
(prepn. of)

RN 92905-61-8 HCAPLUS

CN Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (7CI) (CA INDEX

NAME)



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  display formats.

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L11            3 S L7 NOT L9

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=> d l12, all, 1-2

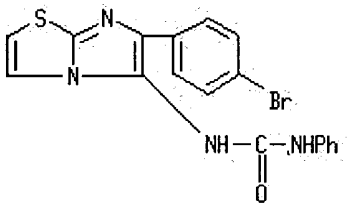
L12 ANSWER 1 OF 2 CAOLD COPYRIGHT 2004 ACS on STN
AN CA58:2443e CAOLD
TI bicyclic heterocyclic compds with a common N atom - (IV) aminoimidazo[2,1-b]thiazoles
AU Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT 74416-91-4 88855-97-4 88855-99-6 91183-08-3 91394-83-1 91394-84-2
91635-13-1 92286-32-3 92545-85-2 93327-30-1 93819-53-5 93869-37-5
94463-22-6 94574-43-3 94622-88-5 94802-80-9 94802-82-1 94994-64-6
95315-23-4 **95315-26-7** 96984-80-4 96986-17-3 97026-49-8 111164-78-4

L12 ANSWER 2 OF 2 CAOLD COPYRIGHT 2004 ACS on STN
AN CA56:2442g CAOLD
TI phenoxazines - (V) syntheses of 7-amino-2-phenoxazones
AU Musso, Hans; Wager, P.
IT 493-42-5 1916-58-1 2835-97-4 3950-31-0 26103-30-0 26103-31-1
53669-94-6 53669-95-7 53669-97-9 67862-51-5 92060-74-7 92102-80-2
92149-10-5 92149-30-9 92149-31-0 92437-82-6 92873-56-8 **92905-61-8**
93014-15-4 93431-78-8 93986-16-4 94538-61-1 94709-90-7 94906-40-8
95019-65-1 98016-21-8 98396-82-8

=> fil reg; d acc 95315-23-4; fil CAOLD

FILE 'REGISTRY' ENTERED AT 21:04:20 ON 02 MAR 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 95315-23-4 REGISTRY
CN Urea, 1-[6-(p-bromophenyl)imidazo[2,1-b]thiazol-5-yl]-3-phenyl- (7CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H13 Br N4 O S
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 21:04:21 ON 02 MAR 2004

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=> fil reg; d acc 95315-26-7; fil CAOLD

FILE 'REGISTRY' ENTERED AT 21:04:23 ON 02 MAR 2004


ANSWER 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   95315-26-7  REGISTRY
CN   Urea, 1-[6-(p-bromophenyl)imidazo[2,1-b]thiazol-5-yl]-3-phenyl-2-thio-
     (7CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C18 H13 Br N4 S2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
        (*File contains numerically searchable property data)
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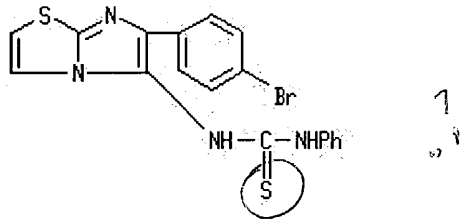


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



FILE 'CAOLD' ENTERED AT 21:04:24 ON 02 MAR 2004

=> fil reg; d acc 92905-61-8; fil CAOLD

FILE 'REGISTRY' ENTERED AT 21:04:27 ON 02 MAR 2004


ANSWER 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   92905-61-8  REGISTRY
CN   Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (7CI)  (CA INDEX
     NAME)
FS   3D CONCORD
MF   C13 H10 Br N3 O S
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
        (*File contains numerically searchable property data)
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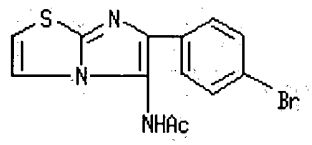


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              1 REFERENCES IN FILE CA (1907 TO DATE)
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 21:04:27 ON 02 MAR 2004

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	415.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-11.09

STN INTERNATIONAL LOGOFF AT 21:04:30 ON 02 MAR 2004